AUTHOR INDEX

ABADIE, B., 637
ABURAI, T., 367
ACHEY, B. E., 911
ADRIANO, D. C., 441
ALEXANDER, R. E., 117
AMBACH, W., 27
ANDERBERG, B., 653, 743
ANNO, G. H., 821
ANSPAUGH, L. R., 803
APFEL, R. E., 79
ARCHER, V. E., 255
ASSIMAKOPOULOS, P. A., 103
AUXIER, J. A., 929
AZORÍN, J., 551

BÄCHMANN, K., 55
BAN, S., 947
BAO-KANG, G., 683
BARGERON, C. B., 85
BARNES, F. S., 759
BAUM, S. J., 821
BEASLEY, C. W., 539
BEATRICE, E. S., 631
BECK, W., 813
BELKIN, M., 687
BENEDETTO, A. R., 119, 259, 576, 967
BENEDITTINI, M., 903
BERKVENS, P., 229
BIRCHALL, A., 857
BIRNGRUBER, R., 605, 705
BLACK, R. E., 939
BLUMTHALER, M., 27
BOHNER, K. R., 355
BOICE, JR., J. D., 139
BOLANDER, G., 653, 743
BRATEMAN, L., 567
BRENNAN, D. H., 665
BRIGHT, D., 521
BRISTOW, R. G., 893
BROUILLET, B., 637
BROWN-WOODMAN, P. D. C., 521
BROYLES, A. A., 933
BRUENGER, F. W., 485, 839
BRUNNER, P., 27
BUCHANAN, J. A., 11
BUCHLI, R., 423
BURKART, W., 423
BUSHONG, S. C., 565

CAMA, G., 245
CARLOS, M., 33
CEMBER, H., 811
CHASE, G. R., 195
CHENG, Y. S., 309
CHIU, N., 561
CHU, T-C., 201
CHUNG, C., 465
CHUPRINKO, C. A., 253
CLARK, G. M., 893
COEN, P. E., 911
COHEN, B. L., 349
CORNETT, R. J., 473
COUCH, J. G., 915
COURANT, D., 637
COURT, L., 637
CROSS, F. T., 256
CZERSKA, E. M., 303
CZERSKI, P., 303

DAGLE, G. E., 256
DAVIS, C. C., 303
DE CASTRO, M. B., 33
DECHANG, WU, 647, 711
DENGLONG, W., 647
DER HAGOPIAN, H., 373
DETERS, O. J., 85
DIEBERT, T., 361
DODD, B., 974
DONOVAN, G. L., 963
DOUSSET, M., 875
DU, XU, 647
DURBIN, P. W., 839
DUSIAS, B., 103

EBIHARA, H., 543
EHEMAN, C. R., 547
EICHHOLZ, G. G., 547, 577, 578, 969
EISENBUD, M., 33
EISNER, H., 27
ELLETT, W. H., 256
ELSON, E. C., 303
ERIKSEN, P., 741
EVANS, J. S., 397
EVDOKIMOFF, V. N., 373
EVEN, O., 315

FAGNANI, F., 903
FARRELL, R. A., 85
FEARON, T. C., 968
FENNIMORE, J. J., 915
FISHER, D. R., 807
FJELD, R. A., 974
FORD, H., 33
FRALEY, JR., L., 431
FRANCA, E. P., 33
FRANCENDESE, A., 767
FRANKS, J. K., 749
FUGEN, HU, 647
FUJII, H., 367

GABEL, V.-P., 705
GALOFF, P. K., 741
GATTAVECCHIA, E., 245
GAUTIER, M. A., 71
GEDIKOĞLU, A., 97
GERSHEY, E. L., 571
GHINI, S., 245
GIBBS, S. J., 515
GIES, R. A., 256
GILBERT, E. S., 11
GILBERT, J. D., 915
GLAZKOV, V., 625
GOFF, T. E., 139
GOFMAN, J. W., 117
GOLDSMITH, R., 139
GOLIKOV, V. Y., 111
GOMAA, M. A., 377
GOODEN, D. S., 575
GORDON, K., 277
GORI, G., 245
GRECO, J. M., 915
GRIESBACH, O. A., 915
GROMICKO, N., 349
GUANGHUANG, G., 647, 711
GUERRESI, E., 245
GUIDAO, X., 647, 711
GUISU, Z., 647
GUTIÉRREZ, A., 551

HADLEY, J. A., 521
HAIBIAO, W., 711
HAIFENG, L., 647, 711
HAMNERIUS, Y., 777
HANSSON, H-A., 777
HARRISON, M. C., 233
HARTMANN, G., 55
HATTEMER-FREY, H. A., 527
HEATON, B., 459
HELWEICK, K. L., 181
HENDEE, W. R., 259, 575, 576, 577, 969, 970
HILLENKAMP, F., 613
HIRAYAMA, H., 947
HJELMQVIST, E., 777
HJERESEN, D. L., 767
HOPKE, P. K., 189
HRUBEC, Z., 139
HUANWEN, Q., 647
HUDA, W., 277
HUMPHRIES, L. L., 974
HURST, K. A., 181
HURST, W. J., 911
HURWITZ, P. E., 139
HUSSAIN, L. A., 943

IDE, H. M., 71
IOANNIDES, K. G., 103
ISHIDA, M. R., 869
ISHIKAWA, H., 367
ISRAELI, M., 315
IZAK-BIRAN, T., 315

JAMES, A. C., 857
JANTUNEN, M. J., 451
JEUNG, N., 839
JIA-NU, W., 683
JIEMIN, X., 647, 711
JOHNSON, J. R., 165
JONES, C. W., 223
JONES, E. S., 839
JONES, T. D., 219
JOYNER, K. H., 303
JUN-ZHENG, Z., 957

KANDA, Y., 953
KARU, T., 691
KASSAEE, A., 493
KATHREN, R. L., 807
KAWANO, T., 543
KEARFOTT, K. J., 169
KEY, C. R., 415
KLENKE, W. J., 379
KONDO, K., 953
KRAMER, G. H., 361

LAMOTHE, E. S., 165
LANG, C. M., 911
LANG, G. K., 705
LAPHAM, S. C., 327
LATNER, N., 561
LAUHALA, K. E., 321
LECUYER, D. W., 297
LEFAURE, C., 903
LEON, J. W., 361
LEWIS, L. L., 341
LIANGSHU, S., 647, 711
LIN, Y-M., 201
LINNIK, L., 625
LINSALATA, P., 33
LLOYD, R. D., 929
LO, Y-C., 79
LOBAO, N., 33
LOEB, J. M., 968
LOLIS, D., 103
LONG, S. A. T., 493
LORENZ, B., 705
LUETZELSCHWAB, J. W., 181
LUND, D. J., 631

MACCASLIN, J. B., 817
MACCIA, C., 903
MAILHOT, H., 473
MARBURY, M. C., 415
MARSHALL, J., 617
MARSHALL, W. J., 753
MARTIN, C. J., 459
MARTINS, B. I., 117, 572
MAYS, C. W., 223
MCCALLY, R. L., 85
MCDONALD, K. E., 321
MCFEE, M. C., 547
MCGREGOR, R. G., 239
MCLEOD, K. W., 441
MEINHOLD, C. B., 570
MILD, K. H., 777
MILLARD, J. B., 327
MILLER, K. L., 911
MILLER, S. C., 485
MIS, F. J., 233
MIURA, T., 953
MODAN, B., 345
MOELLER, D. W., 397
MOGHISSI, A. A., 959, 964
MOORE, M. M., 963
MOORE, W. H., 539
MORGAN, K. Z., 964
MORGAN, M. V., 415
MORITZ, L. E., 287
MORRIS, M. D., 219
MORRIS, R. C., 431
MORSE, R. S., 33
MOSS, W. D., 71
MURPHY, P. H., 539
MUSTONEN, R. A., 451

NEWTON, G. J., 309
NEWTON, G. J., 107
NIKITIN, V. V., 111
NILSSON, R., 777
NUSSBAUM, C., 893
NUSSBAUM, R. H., 958, 961

O'DONNELL, J. M., 767
OHNUKI, T., 47
OKUNADE, A. A., 943
OLANDERS, S., 777
OVERCAMP, T. J., 974

PACK, S. R., 527
PAKOU, A. A., 103
PALMER, H. E., 249
PANDEY, L. N., 493
PARTY, E., 571
PATHAK, D. R., 415
PERSSON, L. I., 777
PETERS, R. H., 473
PETERSEN, G. R., 11
PICKERING, C. A., 373
PINDER III, J. E., 441
PODOL'TZEF, A., 625
POFFIJIN, A., 229
PORTER, D., 521
PRIVALOV, A., 625

QUINDOS, L. S., 107

RAMAMURTHI, M., 189
RAY, D. L., 959, 964
RAYMOND, K. N., 839
REHWALD, W., 27
REPONEN, A. R., 451
RHOADS, M. C., 249
RICHARDSON, L., 521
ROSSI, H. H., 885
RUSTGI, M. L., 493

SACHETT, I., 33
SAITO, M., 869
SAMET, J. M., 327, 415
SANDERS, C. L., 321
SCHLESINGER, T., 315
SCHOBER, R. A., 819
SCHWARTZ, M., 687
SELDEN, S. M., 547
SERVANTIE, B., 781
SHAMAI, Y., 315
SHEARER, D. R., 963
SHUYING, Z., 647
SIMPKIN, D. J., 151
SINGH, N. P., 341
SIPAHI, B. L., 97
SJÖLUND, B., 653, 743
SLINEY, D. H., 717
SONG-LIN, X., 725
STABIN, M. G., 539
STEHLIK, K. J., 939
STEINVALL, O., 653, 743
STENCEL, J. R., 915
STROM, D. J., 355
STUCHLY, M. A., 297
SU, Y. F., 309

TAIRA, M., 953
TAKIUE, M., 367
TANAKA, T., 47
TAYLOR, G. N., 223
TAYLOR, K. W., 893
TENGROTH, B., 603, 653, 743
THOM, C., 55
THOMAS, R. H., 379, 817
THOMPSON, J., 459
TONELLI, D., 245
TOWNSEND, L. W., 973
TRACY, B. L., 239
TRAVIS, C. C., 527, 869
TYNDALL, D. A., 533

UHLIR, L. C., 839

VALDIVIA, A. A., 415
VANMARCKE, H., 229
VETTER, R. J., 9, 275
VOILLEQUÉ, P. G., 233
VUCICH, J. J., 968

WALKER, W. B., 239
WALLACE, R. H., 963
WARREN, S. B., 233
WEBSTER, E. W., 569

WEINGARTEN, R., 315
WEITL, F. L., 839
WELCH, A. J., 729
WENG, P-S., 201
WESTERMAN, B., 967
WHITE, D. L., 839
WHITE, W. J., 911
WIJKER, H., 377
WILKENING, M. H., 107
WILLIAMS, F. W., 485
WILSON, J., 139
WILSON, J. W., 973
WITHERS, H. R., 821
WOLBARSHT, M. L., 729
WOOD, R. E., 893
WRENN, M. E., 341

XIE, M., 647

YAN, Z., 683
YEH, H. C., 309
YONG-SHU, C., 643
YOSHIZUMI, T. T., 253
YOUNG, R. W., 821

ZAIDER, M., 885
ZHAO-ZHANG, L., 683, 725
ZHELTOV, G., 625
ZHEN-ZHUO, Z., 683
ZHONGLI, C., 647
ZIKOPOULOS, K., 103
ZUCLICH, J. A., 671
ZWICK, H., 657

SUBJECT INDEX: VOLUME 56

ACCELERATORS
- Measurement of neutron leakage spectra at a 500-MeV proton accelerator 287
- Neutron dose equivalent outside the lateral shielding of an electron linear accelerator operating at 0.48-2.15 GeV 947

ACCIDENT ANALYSIS
- Environmental radioactivity and dose evaluation in Taiwan after the Chernobyl accident 465
- Radiological health effects models for nuclear power plant accident consequence analysis 397
- Role of the public sector in prevention and management of radiation accidents 345

ACCIDENTS, LASER
- A laser radiation occupational health standard for the People's Republic of China 725
- Clinical observations of six cases of laser injury to the eye 705
- Clinical, pathological and photochemical studies of laser injury of the retina 643
- Experimental studies of the injurious effects of Q-switched Nd:YAG lasers and their outdoor applications 647
- Ocular injuries from accidental laser exposure 711
- Visual functional changes associated with low-level light effects 657

ACCIDENTS, REACTOR
- Artificial radioactivity in the fuel peat and peat ash in Finland after the Chernobyl accident 451
- Cesium-137, ^{134}Cs and ^{110m}Ag in lambs grazing pasture in NE Scotland contaminated by Chernobyl fallout 459
- Chernobyl fallout on alpine glaciers 27
- Chernobyl radioactivity in Turkish tea 97
- Chernobyl: The Real Story 970
- Nuclear Accidents and Epidemiology 119
- Radiocesium levels measured in breast milk one year after the reactor accident at Chernobyl 103
- Transfer to milk of ^{131}I and ^{137}Cs released during the Chernobyl reactor accident 239

ACTINIDES
- Chelation of ^{238}Pu(IV) *in vivo* by 3,4,3-LICAM(C): effects of ligand methylation and pH 839

AGRICULTURE
- The accuracy of some simple models for predicting particulate interception and retention in agricultural systems 441

ALGORITHM
- A microcomputer algorithm for solving first-order compartmental models involving recycling 857

AMERICIUM-241
- Calibration of a double phoswich detector assembly for estimation of homogeneously or inhomogeneously distributed ^{241}Am and/or ^{239}Pu in untreated fecal samples 361
- Determining the ratio of ^{239}Pu to ^{241}Am in wounds by measuring the L gamma x-rays with a Si(Li) detector 249

ATOMIC BOMB SURVIVORS
Symptomatology of acute radiation effects in humans after exposure to doses of 0.5-30 Gy 821
ATTENUATION
An empirical model for x-ray attenuation in Pb and mild steel 943
AUTORADIOGRAPHY
Quantitative scanning electron microscopic autoradiography of inhaled $^{239}PuO_2$ 321

BIOASSAY
An inexpensive and practical ambient-temperature vacuum still for bioassays 355
Bioassay alpha spectrometry: energy resolution as a function of sample source preparation and counting geometry 71
BOOK REVIEW
Advances in Radiation Biology: Vol. 12 577
Basic Radiation Protection Technology, by Daniel A. Gollnick 575
Discovering Alvarez 379
Exposure of the Population in the United States and Canada from Natural Background Radiation 259
Imaging Techniques in Biology and Medicine 576
Improving Dialogue with Communities 575
Ionizing Radiation: Protection and Dosimetry 259
Neptunium: Radiation Protection Guidelines 576
Nuclear Accidents and Epidemiology 119
Nuclear Energy 969
Radiochemical Neutron Activation Analysis for 36 Elements in Geological Material 578
Radiochemistry of Carbon, Nitrogen and Oxygen 577
Use of Laboratory Animals in Biomedical and Behavioral Research 968
Would the Insects Inherit the Earth? and Other Subjects of Concern to Those Who Worry About Nuclear War 379
BRACHYTHERAPY
Reducing radiation from brachytherapy patients with a cost-effective bedshield 939
BREMSSTRAHLUNG
Health physics measurements on Princeton tokamaks 1977-1987 915
BUILDING MATERIALS
Estimation of indoor ^{222}Rn from concrete 107

CALIBRATION
Calibration of a double phoswich detector assembly for estimation of homogeneously or inhomogeneously distributed ^{241}Am and/or ^{239}Pu in untreated fecal samples 361
CANCER
Cancer mortality around La Hague nuclear facilities 875
Correction to BEIR IV report 256
Is ionizing radiation regulated more stringently than chemical carcinogens? 527
Mortality of workers at the Hanford Site: 1945-1981 11
New data inconsistent with 'scientific consensus' on low-level radiation cancer risks 961
Peer review and scientific consensus in radiation cancer assessment 959

CANCER (continued)
Radiation cancer risks: who is ordained to speak for science? 958
The effect of dose rate on radiation injury 933
CARBON
Radiochemistry of Carbon, Nitrogen and Oxygen 577
CARCINOGENESIS
Comment on 'A histologic study of the influence of cigarette smoking in suppressing Rn daughter carcinogenesis in dogs' 255
Radon progeny exposure and lung cancer risk in New Mexico U miners: a case-control study 415
Reply to Dr. Archer's Comment on 'A histologic study of the influence of cigarette smoking in suppressing Rn daughter carcinogenesis in dogs' 256
Reply to Morgan: exaggeration of radiation risk is a disservice to environmental protection 964
CATARACTS
Ultraviolet-induced photochemical damage in ocular tissues 571
CATECHOLATES
Chelation of ^{238}Pu(IV) in vivo by 3,4,3-LICAM(C): effects of ligand methylation and pH 839
CENTRAL NERVOUS SYSTEM
Microwave attentuation of ethanol-induced interactions with noradrenergic neurotransmitter systems 767
Microwave effects on the central nervous system--a study of radar mechanics 777
CESIUM
The biological half-time of radioactive Cs in poikilothermic and homeothermic animals 473
CESIUM-134
Cesium-137, ^{134}Cs and ^{110m}Ag in lambs grazing pasture in NE Scotland contaminated by Chernobyl fallout 459
CESIUM-137
Cesium-137 levels in breast milk and placentae after fallout from the reactor accident at Chernobyl 245
Cesium-137, ^{134}Cs and ^{110m}Ag in lambs grazing pasture in NE Scotland contaminated by Chernobyl fallout 459
Migration of radionuclides controlled by several different migration mechanisms through a sandy soil layer 47
Transfer to milk of ^{131}I and ^{137}Cs released during the Chernobyl reactor accident 239
CHELATION
Essential trace metal concentrations in beagle liver and bone tissue after prolonged Zn-DTPA treatment 223
CHERNOBYL
Artificial radioactivity in the fuel peat and peat ash in Finland after the Chernobyl accident 451
Cesium-137 levels in breast milk and placentae after fallout from the reactor accident at Chernobyl 245
Cesium-137, ^{134}Cs and ^{110m}Ag in lambs grazing pasture in NE Scotland contaminated by Chernobyl fallout 459
Chernobyl fallout on alpine glaciers 27
Chernobyl radioactivity in Turkish tea 97
Chernobyl: The Real Story 970
Nuclear Accidents and Epidemiology 119

CHERNOBYL (continued)
Radiocesium levels measured in breast milk one year after the reactor accident at Chernobyl 103
Symptomatology of acute radiation effects in humans after exposure to doses of 0.5-30 Gy 821
Transfer to milk of ^{131}I and ^{137}Cs released during the Chernobyl reactor accident 239
CHINA, PEOPLE'S REPUBLIC OF
Dose levels of medical exposure from diagnostic x-ray procedures in Beijing, China 957
CIGARETTES
Comment on 'A histologic study of the influence of cigarette smoking in suppressing Rn daughter carcinogenesis in dogs' 255
Correction to BEIR IV report 256
Radon progeny exposure and lung cancer risk in New Mexico U miners: a case-control study 415
Reply to Dr. Archer's Comment on 'A histologic study of the influence of cigarette smoking in suppressing Rn daughter carcinogenesis in dogs' 256
COBALT-60
Migration of radionuclides controlled by several different migration mechanisms through a sandy soil layer 47
COMPUTER CALCULATIONS
A microcomputer algorithm for solving first-order compartmental models involving recycling 857
CONTAMINATION
Effect of smear method on detection of ^{99m}Tc radiopharmaceuticals 543
Reply to 'Use of liquid vs capsule form of ^{131}I' 963
Use of liquid vs capsule form ^{131}I 963
CONVERSION FACTOR
Estimation of the mean organ doses and the effective dose equivalent from the rando phantom measurements 111
CORNEAS, ANIMAL
Epithelial damage in rabbit corneas exposed to CO_2 laser radiation 85
CORRECTIONS
Correction for: A simple approximation for estimating centerline gamma absorbed dose rates due to a continuous Gaussian plume. Health Phys. 53:143-146, 1987. 974
Correction for: Hazards assessment of worst case transportation accidents involving typical radioactive material shipments. Health Phys. 55:963-983; 1988. 974
Correction for: Radiation safety in commercial air traffic: a need for further study. Health Phys. 55:1001-1003; 1988. 973
COUNTING EFFICIENCY
Bioassay alpha spectrometry: energy resolution as a function of sample source preparation and counting geometry 71
Usefulness of water-soluble paper for smear test of low-energy beta- and gamma-emitters using a liquid scintillation technique 367

DATA RECORDING
Improved cassette recording of multichannel analyzer data 561

DETECTOR, SILICON
Determining the ratio of ^{239}Pu to ^{241}Am in wounds by measuring the L gamma x-rays with a Si(Li) detector 249
DIAGNOSTIC RADIOLOGY
A plea for sensible film badge placement in diagnostic radiology 567
EDE for exposure with protective aprons 569
Influence of organs in the ICRP's remainder on effective dose equivalent computed for diagnostic radiation exposures 515
Monte Carlo Simulation in the Radiological Sciences 969
DIFFUSION
Experimental measurements of the diffusion coefficient of ^{212}Pb 309
DNA
Advances in Radiation Biology: Vol. 12 577
DOGS
Comment on 'A histologic study of the influence of cigarette smoking in suppressing Rn daughter carcinogenesis in dogs' 255
Essential trace metal concentrations in beagle liver and bone tissue after prolonged Zn-DTPA treatment 223
Reply to Dr. Archer's Comment on 'A histologic study of the influence of cigarette smoking in suppressing Rn daughter carcinogenesis in dogs' 256
The influence of age at exposure on the concentrations of ^{239}Pu in beagle gonads 485
DOSE
Nuclear medicine staff and patient doses in Manitoba (1981-1985) 277
DOSE DISTRIBUTION
Some effects of radiation dosimetry errors on an estimated dose-response relationship 219
DOSE EQUIVALENT
Changes in per capita and collective dose equivalent due to natural radiation in Taiwan (1950-1983) 201
Doses to patients from dental radiology in France 903
Influence of organs in the ICRP's remainder on effective dose equivalent computed for diagnostic radiation exposures 515
Neutron dose equivalent outside the lateral shielding of an electron linear accelerator operating at 0.48-2.15 GeV 947
Radon versus Rn daughters 229
DOSE EQUIVALENT, EFFECTIVE
A plea for sensible film badge placement in diagnostic radiology 567
EDE for exposure with protective aprons 569
Estimation of the mean organ doses and the effective dose equivalent from the rando phantom measurements 111
Use of effective dose equivalent for external radiation exposures 570
DOSE, ABSORBED
Estimation of the quality factor on the basis of multi-event microdosimetric distributions 885
Order of magnitude absorbed dose reductions in cephalometric radiography 533
Radiation Dose to Patients from Radiopharmaceuticals 967
Technique-dependent decrease in thyroid absorbed dose for dental radiography 893
DOSE, COLLECTIVE
Changes in per capita and collective dose equivalent due to natural radiation in Taiwan (1950-1983) 201

DOSE, COLLECTIVE (continued)
Doses to patients from dental radiology in France 903
DOSE, INTERNAL RADIATION
Thallium-201 in human milk: Observations and radiological consequences 539
DOSE, MAXIMUM PERMISSIBLE
Hormesis - a dream come true! 117
DOSE, MINIMUM REQUIRED
Hormesis - a dream come true! 117
DOSE, ORGAN
Estimation of the mean organ doses and the effective dose equivalent from the rando phantom measurements 111
DOSE, POPULATION
Dose levels of medical exposure from diagnostic x-ray procedures in Beijing, China 957
Environmental radioactivity and dose evaluation in Taiwan after the Chernobyl accident 465
DOSE-MODIFICATION FACTOR
Dose-modification factor for accumulated dose to cell nucleus due to the protein-bound ^{3}H 869
DOSIMETRY
Accidental CT scanning without Al filtration and its dosimetry 253 dosimetry
An automated dosimetry system for microwave and thermal exposure of biological samples in vitro 303
Ionizing Radiation: Protection and Dosimetry 259
Mortality and career radiation doses for wokers at a commercial nuclear power plant: feasibility study 139
Patient Dosimetry Techniques in Diagnostic Radiology 968
Radiation Dose to Patients from Radiopharmaceuticals 967
Thallium-201 in human milk: Observations and radiological consequences
DOSIMETRY, ERRORS
Some effects of radiation dosimetry errors on an estimated dose-response relationship 219
DOSIMETRY, GAMMA
The effect of dose rate on radiation injury 933
DOSIMETRY, NEUTRON
Practical neutron dosimetry with superheated drops 79
DOSIMETRY, PERSONNEL
EDE for exposure with protective aprons 569
Nuclear medicine staff and patient doses in Manitoba (1981-1985) 277
DOSIMETRY, THERMOLUMINESCENT
Measuring the skin dose from radioactively contaminated gold rings using LiF thermoluminescent powder 547

E-NOTATION
Reply to Fisher's comment: 'Standard for expression of powers of 10' 377
EFFECTS, BIOLOGICAL
A laser radiation occupational health standard for the People's Republic of China 725
Clinical observations of six cases of laser injury to the eye 705
Clinical, pathological and photochemical studies of laser injury of the retina 643

EFFECTS, BIOLOGICAL (continued)
Damage criteria for determining microwave exposure 781
Damage thresholds of skin irradiated by ultraviolet lasers 683
Evaluation of ocular protection filters in field situations 729
Experimental studies of the injurious effects of Q-switched Nd:YAG lasers and their outdoor applications 647
Glare in aviation 665
Laser output characteristics 605
Laser radiation tissue interaction 613
Laser reflections from relatively flat specular surfaces 753
Measurements of laser eye protective filters 741
Microwave attentuation of ethanol-induced interactions with noradrenergic neurotransmitter systems 767
Microwave effects on the central nervous system--a study of radar mechanics 777
Near infrared laser ocular bioeffects 631
New biological phenomena associated with laser radiation 687
New philosophies in control of laser hazards in the outdoors 749
Non-ionizing radiation in outdoor applications 603
Ocular injuries from accidental laser exposure 711
Photobiology of low-power laser effects 691
Preliminary notes on vulnerability of the retina to injury from peripheral laser exposure conditions 653
Radio-microwave interactions with biological materials 759
Radiometry and laser safety standards 717
Retinal damage from intense visible light 625
Retinal damage thresholds from single-pulse laser exposures in the visible spectrum 637
Structural aspects of laser-induced damage and their functional implications 617
Ultraviolet-induced photochemical damage in ocular tissues 671
Visual functional changes associated with low-level light effects 657
Vulnerability of the retina to injury from a military ruby rangefinder at battlefield distances 743
ELECTROMAGNETIC FIELDS
Exposure to electromagnetic fields in arc welding 297
ELECTRON STORAGE RING
Measurements of ozone, oxides of N and nitric acid produced in the tunnel of a high-energy electron storage ring 953
ELECTRONS
Energy spectra of electrons and positrons produced in semi-infinite and infinite water phantoms irradiated by photons with energies up to 1 GeV 493
EMISSIONS, ATMOSPHERIC
Chernobyl radioactivity in Turkish tea 97
Sources for Pu in near surface air 55
EPIDEMIOLOGY
Nuclear Accidents and Epidemiology 119
ERRATA
Correction for: Hazards assessment of worst case transportation accidents involving typical radioactive material shipments. Health Phys. 55:963-983; 1988. 974
Correction for: Radiation safety in commercial air traffic: a need for further study. Health Phys. 55:1001-1003; 1988. 973

ERRATA (continued)
Correction for: A simple approximation for estimating centerline gamma absorbed dose rates due to a continuous Gaussian plume. Health Phys. 53:143-146, 1987. 974
EXPOSURE
Symptomatology of acute radiation effects in humans after exposure to doses of 0.5-30 Gy 821
EXPOSURE, OCCUPATIONAL
Correlation between airborne U exposure and U urinalysis results at Bear Creek Uranium 195
EDE for exposure with protective aprons 569
Exposure to electromagnetic fields in arc welding 297
Microwave effects on the central nervous system--a study of radar mechanics 777
Mortality and career radiation doses for wokers at a commercial nuclear power plant: feasibility study 139
Mortality of workers at the Hanford Site: 1945-1981 11
NRC, NCRP, ICRP and recommendations on prenatal radiation exposure 572
Particle size distributions for airborne radionuclides in Ginna steam generator work environments 233
Personnel monitoring in diagnostic radiology: revisited--again! 565
EXPOSURE, RADIATION
Environmental Radon 970
Is ionizing radiation regulated more stringently than chemical carcinogens? 527
NRC, NCRP, ICRP and recommendations on prenatal radiation exposure 572
Patient Dosimetry Techniques in Diagnostic Radiology 968
Warning from the A-Bomb study about low and slow radiation exposures 117
EYE PROTECTION
A laser radiation occupational health standard for the People's Republic of China 725
Clinical observations of six cases of laser injury to the eye 705
Clinical, pathological and photochemical studies of laser injury of the retina 643
Experimental studies of the injurious effects of Q-switched Nd:YAG lasers and their outdoor applications 647
Glare in aviation 665
Laser radiation tissue interaction 613
Laser reflections from relatively flat specular surfaces 753
Measurements of laser eye protective filters 741
New biological phenomena associated with laser radiation 687
New philosophies in control of laser hazards in the outdoors 749
Ocular injuries from accidental laser exposure 711
Photobiology of low-power laser effects 691
Radio-microwave interactions with biological materials 759
Radiometry and laser safety standards 717
Retinal damage from intense visible light 625
Ultraviolet-induced photochemical damage in ocular tissues 671
Visual functional changes associated with low-level light effects 657
Vulnerability of the retina to injury from a military ruby rangefinder at battlefield distances 743

FALLOUT
Artificial radioactivity in the fuel peat and peat ash in Finland after the Chernobyl accident 451
Cesium-137 levels in breast milk and placentae after fallout from the reactor accident at Chernobyl 245
Cesium-137, ^{134}Cs and ^{110m}Ag in lambs grazing pasture in NE Scotland contaminated by Chernobyl fallout 459
Chernobyl fallout on alpine glaciers 27
Chernobyl radioactivity in Turkish tea 97
Radiocesium levels measured in breast milk one year after the reactor accident at Chernobyl 103
Sources for Pu in near surface air 55
FILM BADGE
A plea for sensible film badge placement in diagnostic radiology 567
EDE for exposure with protective aprons 569
Use of effective dose equivalent for external radiation exposures 570
FOOD CHAIN
Health implications of radionuclide levels in cattle raised near U mining and milling facilities in Ambrosia Lake, New Mexico 327
FORUM
Health Physics Forum: a new section in the journal 275
How science can contribute to the legal process 929
FRANCE
Doses to patients from dental radiology in France 903
FUSION
Health physics measurements on Princeton tokamaks 1977-1987 915

GEOLOGY
Radiochemical neutron activation analysis for 36 elements in geological material 578
GLARE
Glare in aviation 665
GOLD
Measuring the skin dose from radioactively contaminated gold rings using LiF thermoluminescent powder 547
GONADS
The influence of age at exposure on the concentrations of ^{239}Pu in beagle gonads 485
GREECE
Radiocesium levels measured in breast milk one year after the reactor accident at Chernobyl 103

HANFORD
Mortality of workers at the Hanford Site: 1945-1981 11
HAZARDS, LASER
Laser radiation tissue interaction 613
HAZARDS, OCULAR
A laser radiation occupational health standard for the People's Republic of China 725
Clinical observations of six cases of laser injury to the eye 705
Clinical, pathological and photochemical studies of laser injury of the retina 643
Epithelial damage in rabbit corneas exposed to CO_2 laser radiation 85
Evaluation of ocular protection filters in field situations 729

HAZARDS, OCULAR (continued)
Experimental studies of the injurious effects of Q-switched Nd:YAG lasers and their outdoor applications 647
Glare in aviation 665
Laser output characteristics 605
Laser reflections from relatively flat specular surfaces 753
Measurements of laser eye protective filters 741
Near infrared laser ocular bioeffects 631
New philosophies in control of laser hazards in the outdoors 749
Ocular injuries from accidental laser exposure 711
Photobiology of low-power laser effects 691
Preliminary notes on vulnerability of the retina to injury from peripheral laser exposure conditions 653
Radiometry and laser safety standards 717
Retinal damage from intense visible light 625
Retinal damage thresholds from single-pulse laser exposures in the visible spectrum 637
Structural aspects of laser-induced damage and their functional implications 617
Ultraviolet-induced photochemical damage in ocular tissues 671
Visual functional changes associated with low-level light effects 657
Vulnerability of the retina to injury from a military ruby rangefinder at battlefield distances 743
HEALTH EFFECTS
More on very low radiation doses 117
Radiation cancer risks: who is ordained to speak for science? 958
HEALTH PHYSICS SOCIETY
1988 Distinguished Scientific Achievement Award---Charles W. Mays 807
1988 Distinguished Scientific Achievement Award---Marvin Goldman 803
1988 Elda E. Anderson Award--John R. Frazier 813
1988 Founders Award---Francis J. Bradley 811
Health Physics Forum: A new section of the Journal 9
Publication time and journal content 9
William B. Johnson (1919-1989) 819
William P. Swanson (1931-1988) 817
HIROSHIMA
Symptomatology of acute radiation effects in humans after exposure to doses of 0.5-30 Gy 821
HORMESIS
Hormesis - a dream come true! 117
HUMANS
Effectiveness of skin absorption of tincture of I in blocking radioiodine from the human thyroid gland 911
Symptomatology of acute radiation effects in humans after exposure to doses of 0.5-30 Gy 821
Utilization of femoral head for estimating the skeletal burden of U and Pu in humans 341
HYDROGEN
An inexpensive and practical ambient-temperature vacuum still for bioassays 355
Health physics activities in the dismantling of a radioactive incinerator 373

IMAGING
Imaging Techniques in Biology and Medicine 576
Order of magnitude absorbed dose reductions in cephalometric radiography 533
Personnel monitoring in diagnostic radiology: revisited--again! 565
IMAGING, DIAGNOSTIC
Comment on 'Marble attenuation characteristics for diagnostic x rays' 377
IMAGING, X-RAY
Doses to patients from dental radiology in France 903
Shielding requirements for constant-potential diagnostic x-ray beams determined by a Monte Carlo calculation 151
Technique-dependent decrease in thyroid absorbed dose for dental radiography 893
INCINERATION
Health physics activities in the dismantling of a radioactive incinerator 373
INGESTION
A review of the dietary uptake of Th 165
Radiocesium levels measured in breast milk one year after the reactor accident at Chernobyl 103
Reply to 'Use of liquid vs capsule form of ^{131}I' 963
INHALATION
Comment on 'A histologic study of the influence of cigarette smoking in suppressing Rn daughter carcinogenesis in dogs' 255
Correlation between airborne U exposure and U urinalysis results at Bear Creek Uranium 195
Radiocesium levels measured in breast milk one year after the reactor accident at Chernobyl 103
Reply to Dr. Archer's Comment on 'A histologic study of the influence of cigarette smoking in suppressing Rn daughter carcinogenesis in dogs' 256
INTERNATIONAL COMMISSION ON RADIOLOGICAL PROTECTION
Annual conference of the Canadian Radiation Protection Association 579
Influence of organs in the ICRP's remainder on effective dose equivalent computed for diagnostic radiation exposures 515
Protection of the patient in nuclear medicine 967
INTERNATIONAL RADIATION PROTECTION ASSOCIATION
Abstracts of the 12th annual conference of the Australian Radiation Protection Society 121
Proposed change to the IRPA 1985 guidelines on limits of exposure to ultraviolet radiation 971
IODINE
Effectiveness of skin absorption of tincture of I in blocking radioiodine from the human thyroid gland 911
IODINE-131
Effectiveness of skin absorption of tincture of I in blocking radioiodine from the human thyroid gland 911
Reply to 'Use of liquid vs capsule form of ^{131}I' 963
Transfer to milk of ^{131}I and ^{137}Cs released during the Chernobyl reactor accident 239
Use of liquid vs capsule form ^{131}I 963

ISRAEL
Concentrations of U and Po in animal feed supplements in poultry meat and in eggs 315

LABORATORY ANIMALS
Use of Laboratory Animals in Biomedical and Behavioral Research 968

LASERS
A laser radiation occupational health standard for the People's Republic of China 725
Clinical observations of six cases of laser injury to the eye 705
Clinical, pathological and photochemical studies of laser injury of the retina 643
Epithelial damage in rabbit corneas exposed to CO_2 laser radiation 85
Evaluation of ocular protection filters in field situations 729
Experimental studies of the injurious effects of Q-switched Nd:YAG lasers and their outdoor applications 647
Glare in aviation 665
Laser output characteristics 605
Laser radiation tissue interaction 613
Laser reflections from relatively flat specular surfaces 753
Measurements of laser eye protective filters 741
Near infrared laser ocular bioeffects 631
New biological phenomena associated with laser radiation 687
New philosophies in control of laser hazards in the outdoors 749
Ocular injuries from accidental laser exposure 711
Photobiology of low-power laser effects 691
Preliminary notes on vulnerability of the retina to injury from peripheral laser exposure conditions 653
Radiometry and laser safety standards 717
Retinal damage from intense visible light 625
Retinal damage thresholds from single-pulse laser exposures in the visible spectrum 637
Structural aspects of laser-induced damage and their functional implications 617
Visual functional changes associated with low-level light effects 657
Vulnerability of the retina to injury from a military ruby rangefinder at battlefield distances 743

LASERS, ULTRAVIOLET
Damage thresholds of skin irradiated by ultraviolet lasers 683
Ultraviolet-induced photochemical damage in ocular tissues 671

LEAD-212
Experimental measurements of the diffusion coefficient of ^{212}Pb 309

LEGAL SYSTEM
How science can contribute to the legal process 929

LIMITS, EXPOSURE
Retinal damage thresholds from single-pulse laser exposures in the visible spectrum 637

LIQUID SCINTILLATION
An inexpensive and practical ambient-temperature vacuum still for bioassays 355
Usefulness of water-soluble paper for smear test of low-energy beta- and gamma-emitters using a liquid scintillation technique 367

LOW LEVEL RADIATION
Hormesis - a dream come true! 117

MEDICAL RADIATION
Reducing radiation from brachytherapy patients with a cost-effective bedshield 939
MICRODOSIMETRY
Estimation of the quality factor on the basis of multi-event microdosimetric distributions 885
MICROWAVE
An automated dosimetry system for microwave and thermal exposure of biological samples in vitro 303
Damage criteria for determining microwave exposure 781
Radio-microwave interactions with biological materials 759
MINING, URANIUM
Correlation between airborne U exposure and U urinalysis results at Bear Creek Uranium 195
Health implications of radionuclide levels in cattle raised near U mining and milling facilities in Ambrosia Lake, New Mexico 327
Radon progeny exposure and lung cancer risk in New Mexico U miners: a case-control study 415
MODELS
A microcomputer algorithm for solving first-order compartmental models involving recycling 857
Radiological health effects models for nuclear power plant accident consequence analysis 397
Retinal damage from intense visible light 625
The accuracy of some simple models for predicting particulate interception and retention in agricultural systems 441
The biological half-time of radioactive Cs in poikilothermic and homeothermic animals 473
MONITORING, PERSONNEL
Personnel monitoring in diagnostic radiology: revisited--again! 565
MONTE CARLO
Monte Carlo Simulation in the Radiological Sciences 969
MORTALITY
Cancer mortality around La Hague nuclear facilities 875
Mortality of workers at the Hanford Site: 1945-1981 11
MULTICHANNEL ANALYZER
Improved cassette recording of multichannel analyzer data 561

NATIONAL COUNCIL ON RADIATION PROTECTION AND MEASUREMENTS
Use of effective dose equivalent for external radiation exposures 570
NEOPLASM
Cancer mortality around La Hague nuclear facilities 875
Warning from the A-Bomb study about low and slow radiation exposures 117
NEPTUNIUM
Neptunium: Radiation Protection Guidelines 576
NEUTRON ACTIVATION
Radiochemical Neutron Activation Analysis for 36 Elements in Geological Material 578

NEUTRONS
Measurement of neutron leakage spectra at a 500-MeV proton accelerator 287
Neutron dose equivalent outside the lateral shielding of an electron linear accelerator operating at 0.48-2.15 GeV 947
NITROGEN
Measurements of ozone, oxides of N and nitric acid produced in the tunnel of a high-energy electron storage ring 953
Radiochemistry of Carbon, Nitrogen and Oxygen 577
NUCLEAR ENERGY
Nuclear Energy 969
NUCLEAR MEDICINE
Imaging Techniques in Biology and Medicine 576
Monte Carlo Simulation in the Radiological Sciences 969
Nuclear medicine staff and patient doses in Manitoba (1981-1985) 277
Protection of the Patient in Nuclear Medicine 967
Radiation Dose to Patients from Radiopharmaceuticals 967
Reducing radiation from brachytherapy patients with a cost-effective bedshield 939
NUCLEAR WAR
Would the Insects Inherit the Earth? and Other Subjects of Concern to Those Who Worry About Nuclear War 379
NUCLEAR WORKERS
Mortality and career radiation doses for wokers at a commercial nuclear power plant: feasibility study 139
NUTRITION PATHWAY
A review of the dietary uptake of Th 165
OBITUARY
William B. Johnson (1919-1989) 819
William P. Swanson (1931-1988) 817
OXYGEN
Radiochemistry of Carbon, Nitrogen and Oxygen 577
OZONE
Measurements of ozone, oxides of N and nitric acid produced in the tunnel of a high-energy electron storage ring 953

PATIENT PROTECTION
Protection of the Patient in Nuclear Medicine 967
Reducing radiation from brachytherapy patients with a cost-effective bedshield 939
PEER REVIEW
Peer review and scientific consensus in radiation cancer assessment 959
Reply to Morgan: exaggeration of radiation risk is a disservice to environmental protection 964
PHANTOM
Energy spectra of electrons and positrons produced in semi-infinite and infinite water phantoms irradiated by photons with energies up to 1 GeV 493
Estimation of the mean organ doses and the effective dose equivalent from the rando phantom measurements 111
PHOSPHORS
Preparation and performance of a $CaSO_4$:Dy,Tm thermoluminescent phosphor for long-term gamma measurements 551

PHOTON
Energy spectra of electrons and positrons produced in semi-infinite and infinite water phantoms irradiated by photons with energies up to 1 GeV 493
PLUTONIUM
Chelation of $^{238}Pu(IV)$ in vivo by 3,4,3-LICAM(C): effects of ligand methylation and pH 839
Sources for Pu in near surface air 55
The accuracy of some simple models for predicting particulate interception and retention in agricultural systems 441
PLUTONIUM-239
Calibration of a double phoswich detector assembly for estimation of homogeneously or inhomogeneously distributed ^{241}Am and/or ^{239}Pu in untreated fecal samples 361
Determining the ratio of ^{239}Pu to ^{241}Am in wounds by measuring the L gamma x-rays with a Si(Li) detector 249
Quantitative scanning electron microscopic autoradiography of inhaled $^{239}PuO_2$ 321
The influence of age at exposure on the concentrations of ^{239}Pu in beagle gonads 485
Utilization of femoral head for estimating the skeletal burden of U and Pu in humans 341
PLUTONIUM-240
Utilization of femoral head for estimating the skeletal burden of U and Pu in humans 341
POLONIUM
Concentrations of U and Po in animal feed supplements in poultry meat and in eggs 315
POSITRONS
Energy spectra of electrons and positrons produced in semi-infinite and infinite water phantoms irradiated by photons with energies up to 1 GeV 493
PUBLIC INFORMATION
How science can contribute to the legal process 929
Improving Dialogue with Communities 575
Role of the public sector in prevention and management of radiation accidents 345

QUALITY FACTOR
Estimation of the quality factor on the basis of multi-event microdosimetric distributions 885

RADAR
Microwave effects on the central nervous system--a study of radar mechanics 777
RADIATION
Advances in Radiation Biology: Vol. 12 577
Peer review and scientific consensus in radiation cancer assessment 959
Radiation cancer risks: who is ordained to speak for science? 958
RADIATION DAMAGE
Advances in Radiation Biology: Vol. 13 577

RADIATION DAMAGE (continued)
Radiological health effects models for nuclear power plant accident consequence analysis 397
The effect of dose rate on radiation injury 933
Transfer to milk of ^{131}I and ^{137}Cs released during the Chernobyl reactor accident 239
RADIATION DOSE
Influence of organs in the ICRP's remainder on effective dose equivalent computed for diagnostic radiation exposures 515
More on very low radiation doses 117
RADIATION MONITORS
Accidental CT scanning without Al filtration and its dosimetry 253
RADIATION PROTECTION
Basic Radiation Protection Technology 575
RADIATION RISK
Effect of low-level radiation 964
Reply to Morgan: exaggeration of radiation risk is a disservice to environmental protection 964
RADIATION THERAPY
Reducing radiation from brachytherapy patients with a cost-effective bedshield 939
RADIATION, BACKGROUND
Exposure of the Population in the United States and Canada from Natural Background Radiation 259
RADIATION, INFRARED
Glare in aviation 665
RADIATION, IONIZING
Ionizing Radiation: Protection and Dosimetry 259
RADIATION, LASER
Epithelial damage in rabbit corneas exposed to CO_2 laser radiation 85
RADIATION, LOW-LEVEL
Effect of low-level radiation 964
More on very low radiation doses 117
Mortality and career radiation doses for wokers at a commercial nuclear power plant: feasibility study 139
New data inconsistent with 'scientific consensus' on low-level radiation cancer risks 961
RADIATION, MICROWAVE
Microwave attentuation of ethanol-induced interactions with noradrenergic neurotransmitter systems 767
Microwave effects on the central nervous system--a study of radar mechanics 777
RADIATION, NON-IONIZING
A laser radiation occupational health standard for the People's Republic of China 725
An automated dosimetry system for microwave and thermal exposure of biological samples *in vitro* 303
Clinical observations of six cases of laser injury to the eye 705
Clinical, pathological and photochemical studies of laser injury of the retina 643
Damage criteria for determining microwave exposure 781
Damage thresholds of skin irradiated by ultraviolet lasers 683
Epithelial damage in rabbit corneas exposed to CO_2 laser radiation 85
Evaluation of ocular protection filters in field situations 729

RADIATION, NON-IONIZING (continued)
Experimental studies of the injurious effects of Q-switched Nd:YAG lasers and their outdoor applications 647
Exposure to electromagnetic fields in arc welding 297
Glare in aviation 665
Laser output characteristics 605
Laser radiation tissue interaction 613
Laser reflections from relatively flat specular surfaces 753
Measurements of laser eye protective filters 741
Microwave attentuation of ethanol-induced interactions with noradrenergic neurotransmitter systems 767
Microwave effects on the central nervous system--a study of radar mechanics 777
Near infrared laser ocular bioeffects 631
New biological phenomena associated with laser radiation 687
New philosophies in control of laser hazards in the outdoors 749
Non-ionizing radiation in outdoor applications 603
Ocular injuries from accidental laser exposure 711
Photobiology of low-power laser effects 691
Preliminary notes on vulnerability of the retina to injury from peripheral laser exposure conditions 653
Proposed change to the IRPA 1985 guidelines on limits of exposure to ultraviolet radiation 971
Radio-microwave interactions with biological materials 759
Radiometry and laser safety standards 717
Retinal damage from intense visible light 625
Retinal damage thresholds from single-pulse laser exposures in the visible spectrum 637
Structural aspects of laser-induced damage and their functional implications 617
Ultraviolet-induced photochemical damage in ocular tissues 671
Visual functional changes associated with low-level light effects 657
Vulnerability of the retina to injury from a military ruby rangefinder at battlefield distances 743
RADIATION, RADIOFREQUENCY
Damage criteria for determining microwave exposure 781
Radio-microwave interactions with biological materials 759
RADIATION, ULTRAVIOLET
Glare in aviation 665
Proposed change to the IRPA 1985 guidelines on limits of exposure to ultraviolet radiation 971
Ultraviolet-induced photochemical damage in ocular tissues 671
RADIOACTIVITY, AIRBORNE
Correlation between airborne U exposure and U urinalysis results at Bear Creek Uranium 195
Radiocesium levels measured in breast milk one year after the reactor accident at Chernobyl 103
Sources for Pu in near surface air 55
RADIOACTIVITY, NATURAL
Changes in per capita and collective dose equivalent due to natural radiation in Taiwan (1950-1983) 201

RADIOFREQUENCY
Evaluation of reproductive function of female rats exposed to radiofrequency fields (27.12 MHz) near a shortwave diathermy device 521
RADIOGRAPHY, DENTAL
Technique-dependent decrease in thyroid absorbed dose for dental radiography 893
Doses to patients from dental radiology in France 903
RADIONUCLIDES
Preliminary experiences with ^{222}Rn gas in Arizona homes 169
RADIONUCLIDES, AIRBORNE
Particle size distributions for airborne radionuclides in Ginna steam generator work environments 233
RADIOPHARMACEUTICALS
Effect of smear method on detection of ^{99m}Tc radiopharmaceuticals 543
Radiation Dose to Patients from Radiopharmaceuticals 967
RADIUM-226
An assessment of soil-to-plant concentration ratios for some natural analogues of the transuranic elements 33
Concentrations of U and Po in animal feed supplements in poultry meat and in eggs 315
RADON
Correction to BEIR IV report 256
Measuring the skin dose from radioactively contaminated gold rings using LiF thermoluminescent powder 547
Radon progeny exposure and lung cancer risk in New Mexico U miners: a case-control study 415
RADON DAUGHTERS
Comment on 'A histologic study of the influence of cigarette smoking in suppressing Rn daughter carcinogenesis in dogs' 255
Experimental measurements of the diffusion coefficient of ^{212}Pb 309
On improving the validity of wire screen 'unattached' fraction Rn daughter measurements 189
Radon versus Rn daughters 229
Reply to Dr. Archer's Comment on 'A histologic study of the influence of cigarette smoking in suppressing Rn daughter carcinogenesis in dogs' 256
RADON, INDOOR
Environmental Radon 970
Estimation of indoor ^{222}Rn from concrete 107
Radon concentrations in five Pennsylvania soils 181
Radon versus Rn daughters 229
Radon-222 levels in low income households 349
RADON-222
Effects of vegetation, a clay cap and environmental variables on ^{222}Rn fluence rate from reclaimed U mill tailings 431
Estimation of indoor ^{222}Rn from concrete 107
Radon-222 levels in low income households 349
RADON-222, INDOOR
Influence of the subsoil geology and construction technique on the indoor air ^{222}Rn levels in 80 houses of the central Swiss alps 423
Preliminary experiences with ^{222}Rn gas in Arizona homes 169

RANGEFINDERS, MILITARY
Vulnerability of the retina to injury from a military ruby rangefinder at battlefield distances 743
RARE EARTH ELEMENTS
An assessment of soil-to-plant concentration ratios for some natural analogues of the transuranic elements 33
REPRODUCTION
Evaluation of reproductive function of female rats exposed to radiofrequency fields (27.12 MHz) near a shortwave diathermy device 521
REPUBLIC OF CHINA
Changes in per capita and collective dose equivalent due to natural radiation in Taiwan (1950-1983) 201
Environmental radioactivity and dose evaluation in Taiwan after the Chernobyl accident 465
RESPIRATORY SYSTEM
Comment on 'A histologic study of the influence of cigarette smoking in suppressing Rn daughter carcinogenesis in dogs' 255
Correlation between airborne U exposure and U urinalysis results at Bear Creek Uranium 195
Reply to Dr. Archer's Comment on 'A histologic study of the influence of cigarette smoking in suppressing Rn daughter carcinogenesis in dogs' 256
RETINAS, ANIMAL
Retinal damage from intense visible light 625
RISK ANALYSIS
Is ionizing radiation regulated more stringently than chemical carcinogens? 527
More on very low radiation doses 117
RODENTS
Epithelial damage in rabbit corneas exposed to CO_2 laser radiation 85
Evaluation of reproductive function of female rats exposed to radiofrequency fields (27.12 MHz) near a shortwave diathermy device 521
Microwave attentuation of ethanol-induced interactions with noradrenergic neurotransmitter systems 767

SAFETY STANDARDS
Is ionizing radiation regulated more stringently than chemical carcinogens? 527
Neptunium: Radiation Protection Guidelines 576
New biological phenomena associated with laser radiation 687
NRC, NCRP, ICRP and recommendations on prenatal radiation exposure 572
Radiometry and laser safety standards 717
SAMPLING
Bioassay alpha spectrometry: energy resolution as a function of sample source preparation and counting geometry 71
SCOTLAND
Cesium-137, ^{134}Cs and ^{110m}Ag in lambs grazing pasture in NE Scotland contaminated by Chernobyl fallout 459
SHIELDING
An empirical model for x-ray attenuation in Pb and mild steel 943
Measurement of neutron leakage spectra at a 500-MeV proton accelerator 287

SHIELDING (continued)
Neutron dose equivalent outside the lateral shielding of an electron linear accelerator operating at 0.48-2.15 GeV 947
Shielding requirements for constant-potential diagnostic x-ray beams determined by a Monte Carlo calculation 151
SILVER-110m
Cesium-137, ^{134}Cs and ^{110m}Ag in lambs grazing pasture in NE Scotland contaminated by Chernobyl fallout 459
SOIL
Influence of the subsoil geology and construction technique on the indoor air ^{222}Rn levels in 80 houses of the central Swiss alps 423
Radon concentrations in five Pennsylvania soils 181
SPECTROMETRY, ALPHA
Bioassay alpha spectrometry: energy resolution as a function of sample source preparation and counting geometry 71

TAILINGS
Effects of vegetation, a clay cap and environmental variables on ^{222}Rn fluence rate from reclaimed U mill tailings 431
TAIWAN
Changes in per capita and collective dose equivalent due to natural radiation in Taiwan (1950-1983) 201
Environmental radioactivity and dose evaluation in Taiwan after the Chernobyl accident 465
TECHNETIUM-99m
Effect of smear method on detection of ^{99m}Tc radiopharmaceuticals 543
THALLIUM-201
Thallium-201 in human milk: Observations and radiological consequences 539
THERMOLUMINESCENCE
Preparation and performance of a $CaSO_4$:Dy,Tm thermoluminescent phosphor for long-term gamma measurements 551
THORIUM
A review of the dietary uptake of Th 165
THORIUM-230
An assessment of soil-to-plant concentration ratios for some natural analogues of the transuranic elements 33
THYROID
Effectiveness of skin absorption of tincture of I in blocking radioiodine from the human thyroid gland 911
Technique-dependent decrease in thyroid absorbed dose for dental radiography 893
TOKAMAK
Health physics measurements on Princeton tokamaks 1977-1987 915
TRANSFER COEFFICIENTS
Concentrations of U and Po in animal feed supplements in poultry meat and in eggs 315
TRANSPORT, ENVIRONMENTAL
Cesium-137 levels in breast milk and placentae after fallout from the reactor accident at Chernobyl 245
Cesium-137, ^{134}Cs and ^{110m}Ag in lambs grazing pasture in NE Scotland contaminated by Chernobyl fallout 459
Chernobyl fallout on alpine glaciers 27

TRANSPORT, ENVIRONMENTAL (continued)
Chernobyl radioactivity in Turkish tea 97
Concentrations of U and Po in animal feed supplements in poultry meat and in eggs 315
Effects of vegetation, a clay cap and environmental variables on ^{222}Rn fluence rate from reclaimed U mill tailings 431
Migration of radionuclides controlled by several different migration mechanisms through a sandy soil layer 47
Radiocesium levels measured in breast milk one year after the reactor accident at Chernobyl 103
TRITIUM
Dose-modification factor for accumulated dose to cell nucleus due to the protein-bound ^{3}H 869
Health physics measurements on Princeton tokamaks 1977-1987 915
TUMOR
Cancer mortality around La Hague nuclear facilities 875
Warning from the A-Bomb study about low and slow radiation exposures 117

ULTRASOUND
Imaging Techniques in Biology and Medicine 576
UNITED KINGDOM
Cesium-137, ^{134}Cs and ^{110m}Ag in lambs grazing pasture in NE Scotland contaminated by Chernobyl fallout 459
UNITED STATES
Exposure of the Population in the United States and Canada from Natural Background Radiation, 259
UPTAKE
A review of the dietary uptake of Th 165
UPTAKE, PLANT
Effects of vegetation, a clay cap and environmental variables on ^{222}Rn fluence rate from reclaimed U mill tailings 431
URANIUM
Concentrations of U and Po in animal feed supplements in poultry meat and in eggs 315
Correlation between airborne U exposure and U urinalysis results at Bear Creek Uranium 195
Effects of vegetation, a clay cap and environmental variables on ^{222}Rn fluence rate from reclaimed U mill tailings 431
Utilization of femoral head for estimating the skeletal burden of U and Pu in humans 341
URANIUM MINES
Health implications of radionuclide levels in cattle raised near U mining and milling facilities in Ambrosia Lake, New Mexico 327
URANIUM-238
Health implications of radionuclide levels in cattle raised near U mining and milling facilities in Ambrosia Lake, New Mexico 327
Influence of the subsoil geology and construction technique on the indoor air ^{222}Rn levels in 80 houses of the central Swiss alps 423
URINALYSIS
Correlation between airborne U exposure and U urinalysis results at Bear Creek Uranium 195

WASTE DISPOSAL
Advances in Radiation Biology: Vol. 13 577
Recommendations for radioactive waste reduction in biomedical/academic institutions 571
WASTE MANAGEMENT
Recommendations for radioactive waste reduction in biomedical/academic institutions 571
WEAPONS
Would the Insects Inherit the Earth? and Other Subjects of Concern to Those Who Worry About Nuclear War 379
WEAPONS, NUCLEAR
Glare in aviation 665
WIRE SCREEN, THEORY
On improving the validity of wire screen 'unattached' fraction Rn daughter measurements 189

X RAYS
An empirical model for x-ray attenuation in Pb and mild steel 943
Comment on 'Marble attenuation characteristics for diagnostic x rays' 377
Doses to patients from dental radiology in France 903
Shielding requirements for constant-potential diagnostic x-ray beams determined by a Monte Carlo calculation 151
Technique-dependent decrease in thyroid absorbed dose for dental radiography 893
X-RAY EXAMINATION
Dose levels of medical exposure from diagnostic x-ray procedures in Beijing, China 957
X-RAY IMAGING
Order of magnitude absorbed dose reductions in cephalometric radiography 533
Zn-DTPA
Essential trace metal concentrations in beagle liver and bone tissue after prolonged Zn-DTPA treatment 223